LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
Data File : BF106664.D
Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.596	551	554	561	rVB	189671	163713	6.14%	0.329%
2	6.595	721	724	729	rBV	200658	178413	6.69%	0.358%
3	6.731	744	747	752	rBV	235258	189914	7.13%	0.381%
4	6.960	782	786	789	rBV	661998	549776	20.63%	1.104%
5	7.113	808	812	814	rBV	193826	160374	6.02%	0.322%
6	7.137	814	816	820	rVB	449665	331766	12.45%	0.666%
7	7.519	878	881	886	rBV	174522	151046	5.67%	0.303%
8	7.989	955	961	964	rBV2	143538	198565	7.45%	0.399%
9	8.019	964	966	972	rVB	208702	242438	9.10%	0.487%
10	8.242	995	1004	1006	rBV	815676	853912	32.04%	1.714%
11	8.266	1006	1008	1012	rVV	1934620	1825902	68.51%	3.665%
12	8.960	1122	1126	1129	rBV	2078243	1761004	66.08%	3.535%
13	9.060	1137	1143	1146	rBV	1770460	1583207	59.41%	3.178%
14	9.313	1183	1186	1189	rVB	295021	219697	8.24%	0.441%
15	9.419	1201	1204	1209	rVB	235574	195634	7.34%	0.393%
16	9.513	1218	1220	1225	rVB	465222	435580	16.34%	0.874%
17	9.583	1226	1232	1236	rBV2	687640	926228	34.76%	1.859%
18	9.660	1241	1245	1247	rBV	985848	1011105	37.94%	2.030%
19	9.683	1247	1249	1254	rVB	707009	622918	23.37%	1.250%
20	9.778	1259	1265	1266	rBV	474716	437985	16.43%	0.879%
21	9.860	1276	1279	1284	rVB2	583838	505340	18.96%	1.014%
22	9.978	1296	1299	1301	rBV	243545	210153	7.89%	0.422%
23	10.001	1301	1303	1306	rVV2	818117	719004	26.98%	1.443%
24	10.036	1306	1309	1312	rVV	1096681	877608	32.93%	1.762%
25	10.101	1316	1320	1324	rBV2	176143	240973	9.04%	0.484%
26	10.201	1333	1337	1341	rVV2	467727	559956	21.01%	1.124%
27	10.242	1341	1344	1347	rVB	313004	283729	10.65%	0.570%
28	10.313	1352	1356	1359	rBV2	316003	359787	13.50%	0.722%
29	10.342	1359	1361	1364	rVV	234982	186307	6.99%	0.374%
30	10.407	1368	1372	1374	rBV2	198294	287258	10.78%	0.577%
31	10.454	1377	1380	1382	rBV	207363	170481	6.40%	0.342%
32	10.554	1393	1397	1402	rVB	1266300	1198352	44.97%	2.406%
33	10.630	1406	1410	1413	rVV3	167432	225165	8.45%	0.452%
34	10.660	1413	1415	1418	rVV2	187652	157130	5.90%	0.315%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.707	1418	1423	1426	rVV3	169696	226136	8.49%	0.454%
36	10.778	1432	1435	1441	rVB3	263522	484947	18.20%	0.974%
37	10.895	1451	1455	1463	rVB5	289680	450410	16.90%	0.904%
38	11.101	1484	1490	1492	rBV	363356	474948	17.82%	0.953%
39	11.125	1492	1494	1497	rVV	239617	210162	7.89%	0.422%
40	11.183	1501	1504	1506	rVV	235076	187516	7.04%	0.376%
41	11.301	1521	1524	1528	rVV2	149451	144572	5.42%	0.290%
42	11.366	1533	1535	1537	rVV2	167243	162946	6.11%	0.327%
43	11.389	1537	1539	1544	rVB	561789	491941	18.46%	0.988%
44	11.495	1553	1557	1559	rBV	671121	703202	26.39%	1.412%
45	11.525	1559	1562	1565	rVV	2537572	2665005	100.00%	5.350%
46	11.572	1567	1570	1573	rVV	947604	786100	29.50%	1.578%
47	11.601	1573	1575	1578	rVV	181216	200207	7.51%	0.402%
48	11.648	1581	1583	1588	rVV3	104766	172748	6.48%	0.347%
49	11.725	1592	1596	1600	rVV3	188396	271260	10.18%	0.545%
50	11.789	1604	1607	1609	rVV	142570	147988	5.55%	0.297%
51	11.825	1610	1613	1617	rVV	424997	397821	14.93%	0.799%
52	11.907	1624	1627	1632	rVB	279742	307031	11.52%	0.616%
53	12.001	1639	1643	1645	rVV	848236	878338	32.96%	1.763%
54	12.025	1645	1647	1651	rVB	1029161	901748	33.84%	1.810%
55	12.072	1652	1655	1658	rBV	376494	380371	14.27%	0.764%
56	12.113	1658	1662	1664	rVV2	1063335	1243643	46.67%	2.497%
57	12.136	1664	1666	1670	rVB	620121	494323	18.55%	0.992%
58	12.289	1689	1692	1694	rVV	408025	365015	13.70%	0.733%
59	12.324	1694	1698	1703	rVB	162995	233513	8.76%	0.469%
60	12.395	1703	1710	1712	rBV3	93125	179535	6.74%	0.360%
61	12.442	1716	1718	1721	rVV2	193547	213076	8.00%	0.428%
62	12.472	1721	1723	1725	rVV	312945	258776	9.71%	0.519%
63	12.495	1725	1727	1730	rVB2	231391	196561	7.38%	0.395%
64	12.548	1732	1736	1739	rVV	616836	635513	23.85%	1.276%
65	12.589	1739	1743	1744	rVV2	363575	467300	17.53%	0.938%
66	12.607	1744	1746	1748	rVV	230627	181104	6.80%	0.364%
67	12.636	1748	1751	1760	rVB3	212227	537490	20.17%	1.079%
68	12.719	1760	1765	1768	rBV	1856152	1837337	68.94%	3.688%
69	12.807	1777	1780	1783	rBV	360946	312494	11.73%	0.627%
70	12.866	1787	1790	1792	rBV	242196	215756	8.10%	0.433%
71	12.948	1797	1804	1809	rBV	2002141	2512132	94.26%	5.043%

LSC Area Percent Report

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Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.995	1809	1812	1815	rVB2	233153	247380	9.28%	0.497%
73	13.077	1823	1826	1828	rVV2	230641	222599	8.35%	0.447%
74	13.160	1836	1840	1844	rBV2	277345	440725	16.54%	0.885%
75	13.248	1851	1855	1856	rBV3	233676	260924	9.79%	0.524%
76	13.271	1856	1859	1862	rVB	674408	618724	23.22%	1.242%
77	13.336	1868	1870	1873	rVV	515527	427716	16.05%	0.859%
78	13.377	1873	1877	1880	rVV2	480647	415668	15.60%	0.834%
79	13.471	1890	1893	1895	rBV	351798	290062	10.88%	0.582%
80	13.501	1895	1898	1901	rVB	408523	346400	13.00%	0.695%
81	13.671	1924	1927	1929	rVV3	132110	148692	5.58%	0.298%
82	13.754	1937	1941	1944	rBV	142766	202515	7.60%	0.407%
83	13.783	1944	1946	1950	rVB2	141920	163423	6.13%	0.328%
84	13.895	1959	1965	1968	rBV2	311487	424535	15.93%	0.852%
85	13.924	1968	1970	1972	rVB	235001	174520	6.55%	0.350%
86	13.954	1972	1975	1978	rBV2	116882	145887	5.47%	0.293%
87	14.066	1990	1994	1997	rBV	110703	150360	5.64%	0.302%
88	14.148	2003	2008	2012	rBV2	1187978	1849386	69.40%	3.713%
89	14.183	2012	2014	2021	rVB	980748	839179	31.49%	1.685%
90	14.554	2072	2077	2080	rVV	367792	418602	15.71%	0.840%
91	14.589	2080	2083	2086	rVB	193533	163603	6.14%	0.328%
92	14.707	2101	2103	2107	rVB	191267	168692	6.33%	0.339%
93	15.248	2191	2195	2198	rBV	395931	630542	23.66%	1.266%
94	15.360	2211	2214	2218	rVB	137876	144591	5.43%	0.290%
95	15.571	2246	2250	2255	rVB	310221	395389	14.84%	0.794%
96	15.636	2257	2261	2267	rVV	511144	655054	24.58%	1.315%
97	15.707	2268	2273	2276	rVV	349732	499903	18.76%	1.004%
98	15.736	2276	2278	2284	rVB2	129626	182739	6.86%	0.367%
99	17.271	2533	2539	2546	rVB2	159595	338410	12.70%	0.679%
100	17.754	2616	2621	2632	rVB	144252	298273	11.19%	0.599%

Sum of corrected areas: 49813878

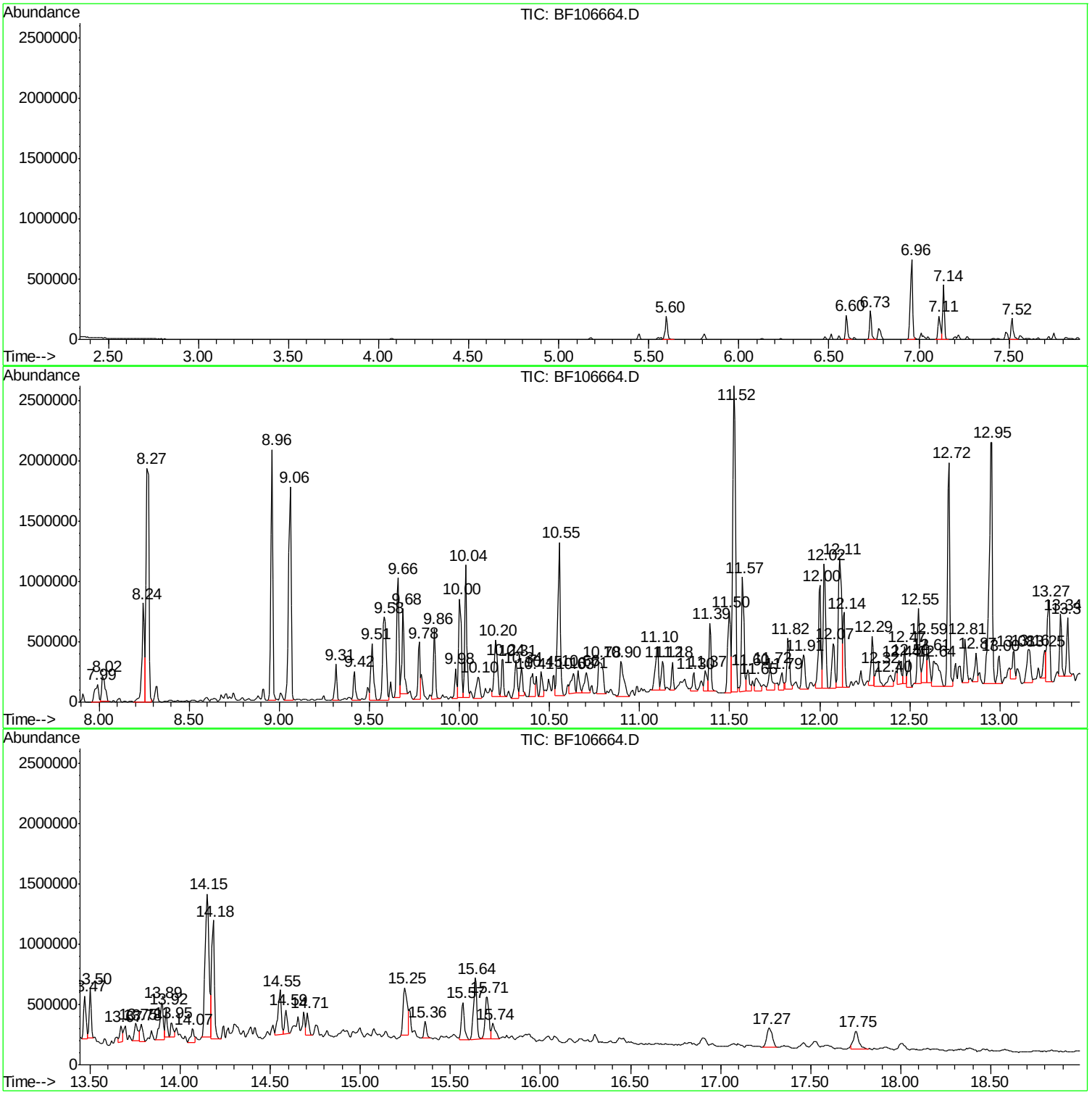
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
Data File : BF106664.D
Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
Data File : BF106664.D
Acq On : 21 Jun 2018 16:20
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Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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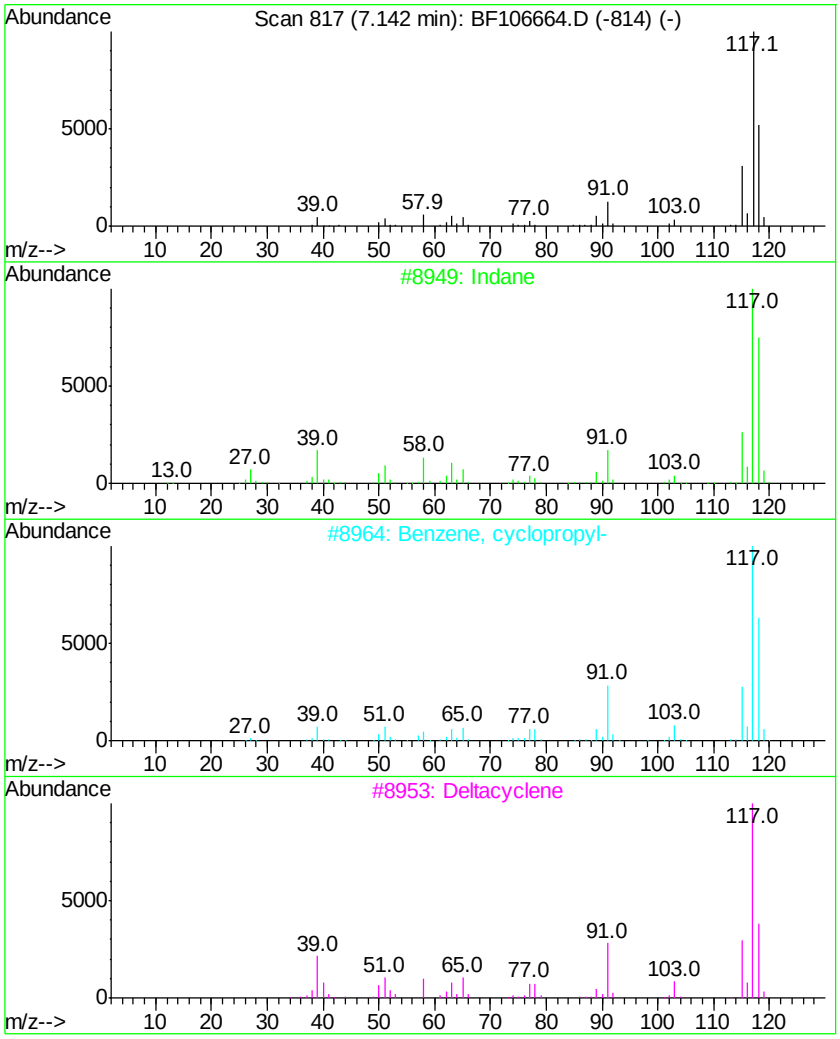
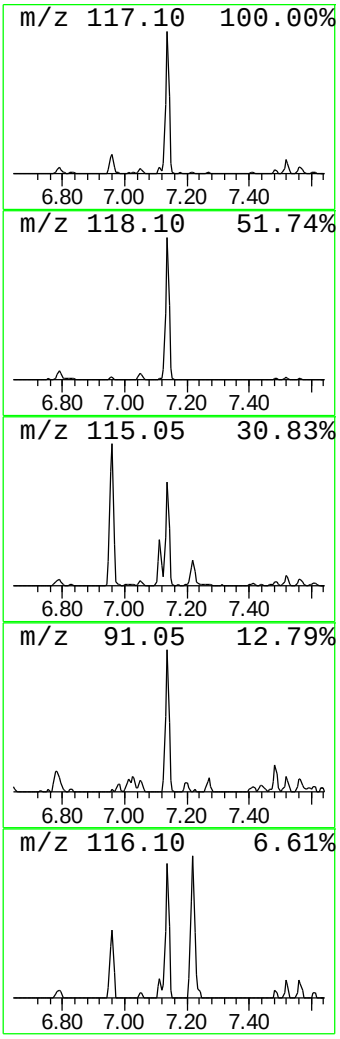
Peak Number 1 Indane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.14	12.07 ng	331766	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	91
2	Benzene, cyclopropyl-	118	C9H10	000873-49-4	83
3	Deltacyclene	118	C9H10	007785-10-6	80
4	(Z)-1-Phenylpropene	118	C9H10	000766-90-5	74
5	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	60





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
Data File : BF106664.D
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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

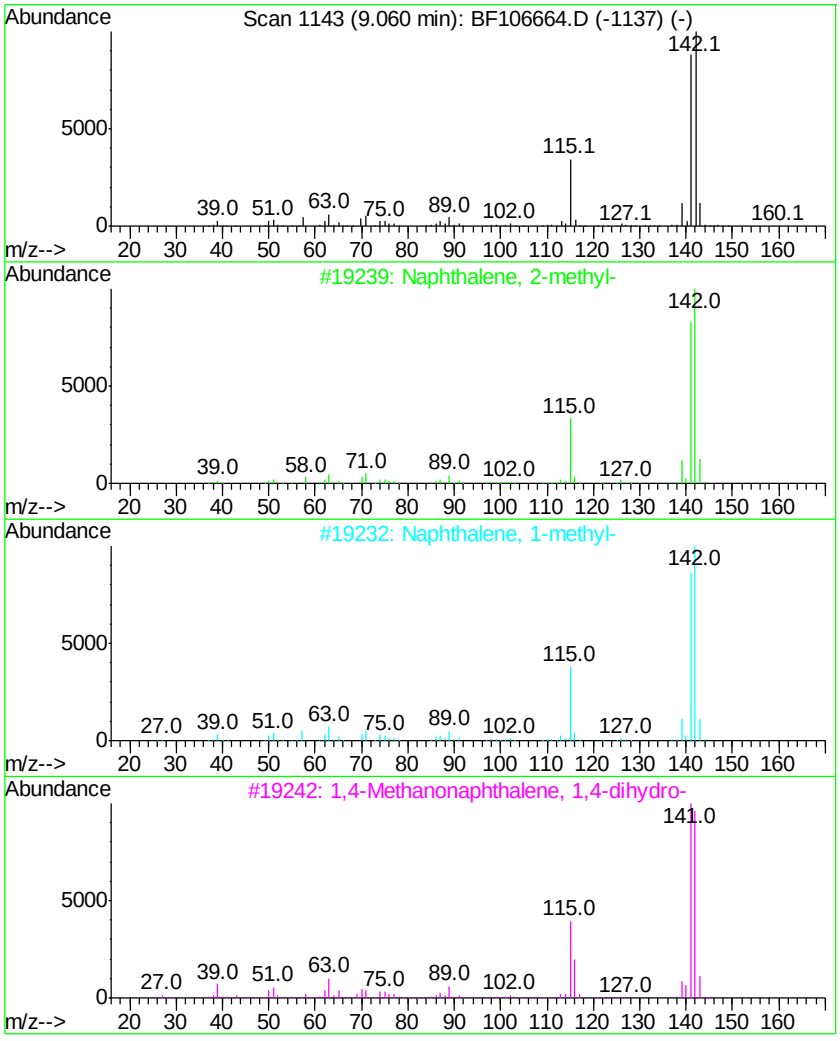
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

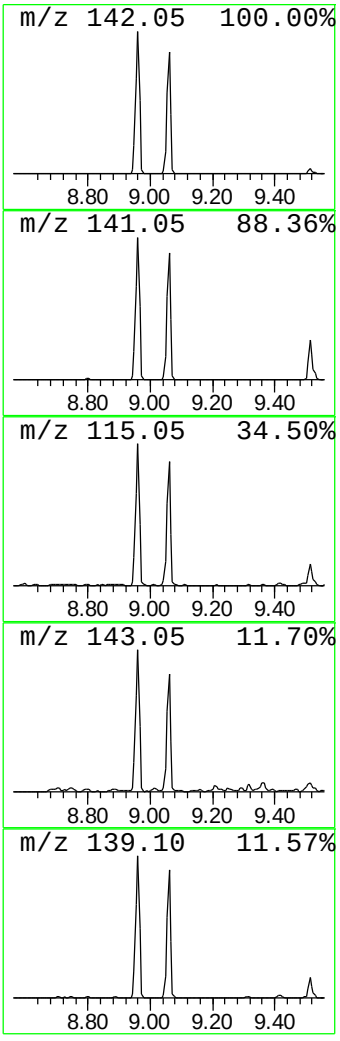
****

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.06	37.08 ng	1583210	Naphthalene-d8	8.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	64





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Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

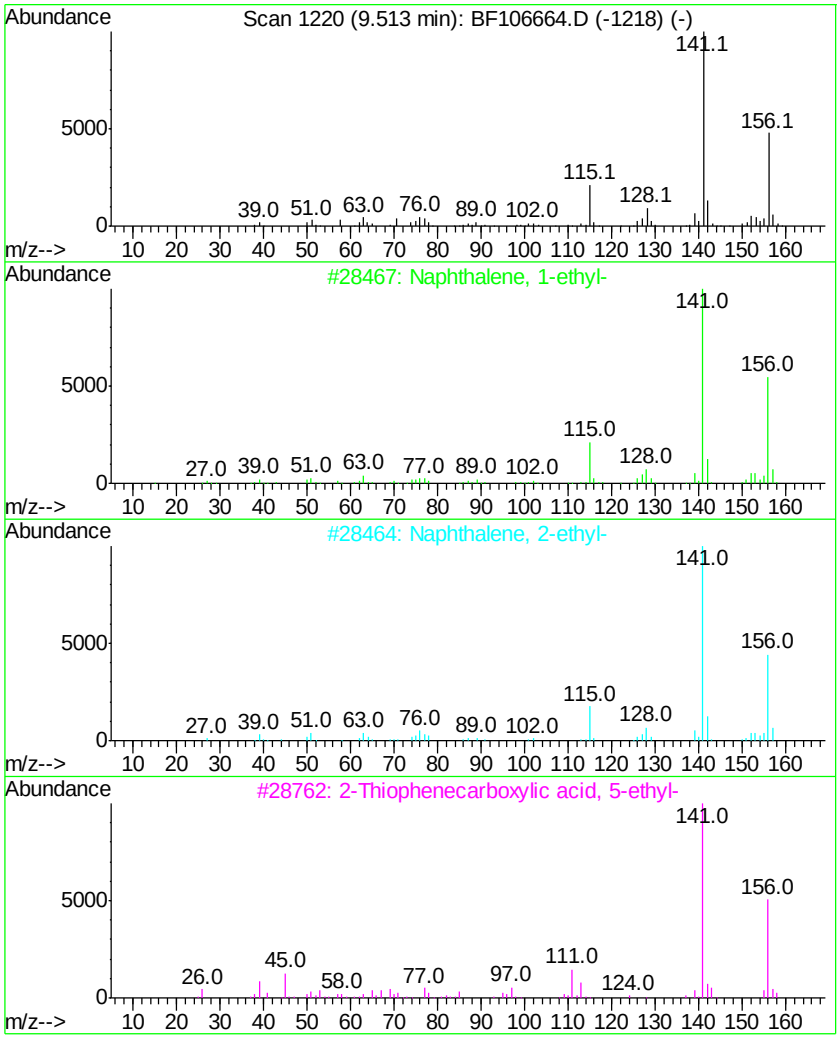
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

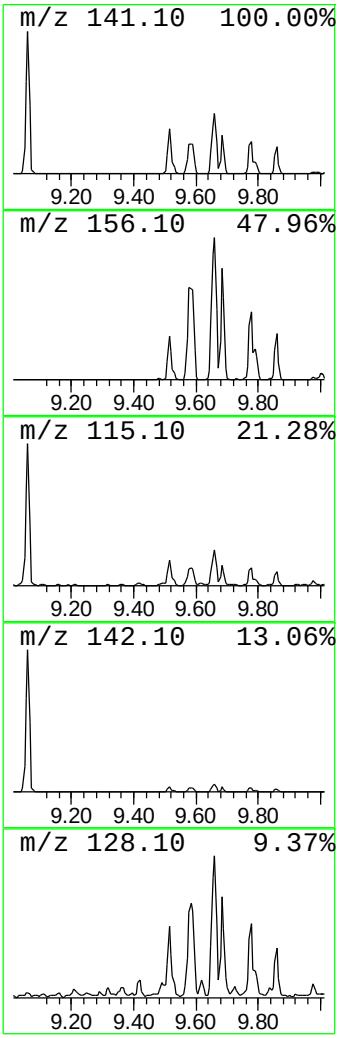
****

Peak Number 3 Naphthalene, 1-ethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.51	12.12 ng	435580	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	97
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	96
3	2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	64
4	5-Acetyl-2-amino-4-methylthiazole	156	C6H8N2OS	030748-47-1	53
5	2-Pyrimidinethiol, 4,5-dihydro-4...	156	C7H12N2S	1000319-31-6	53





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Data File : BF106664.D
Acq On : 21 Jun 2018 16:20
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Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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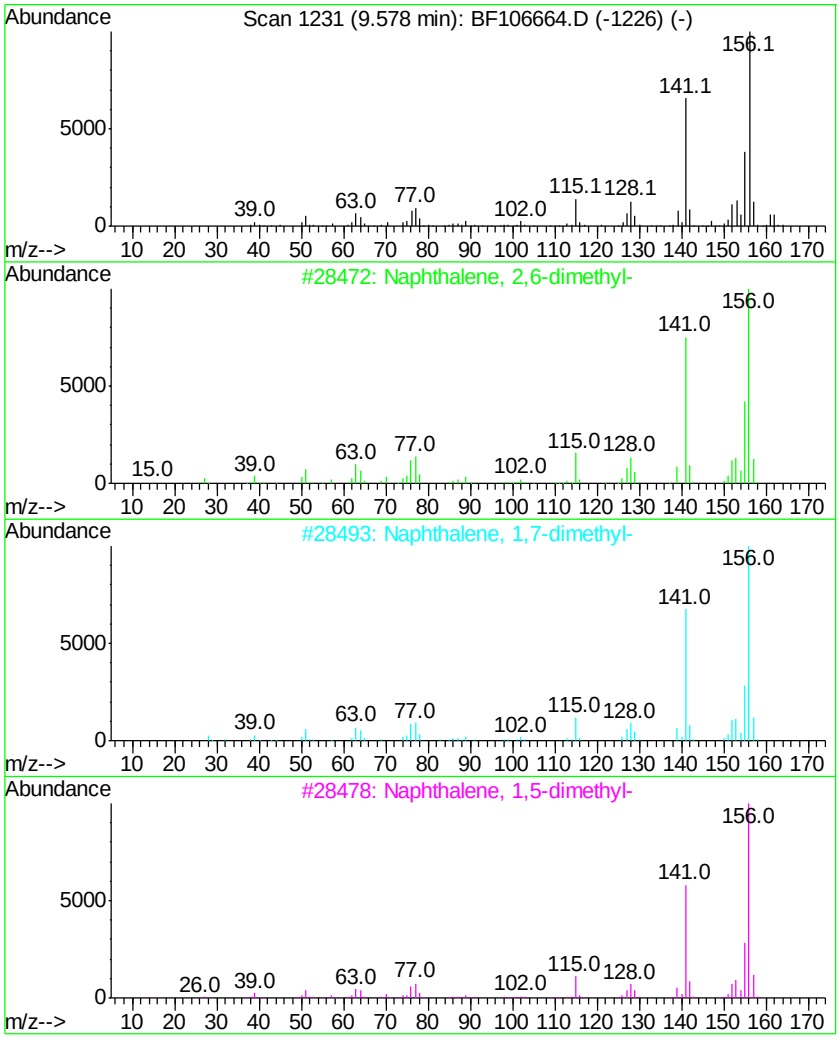
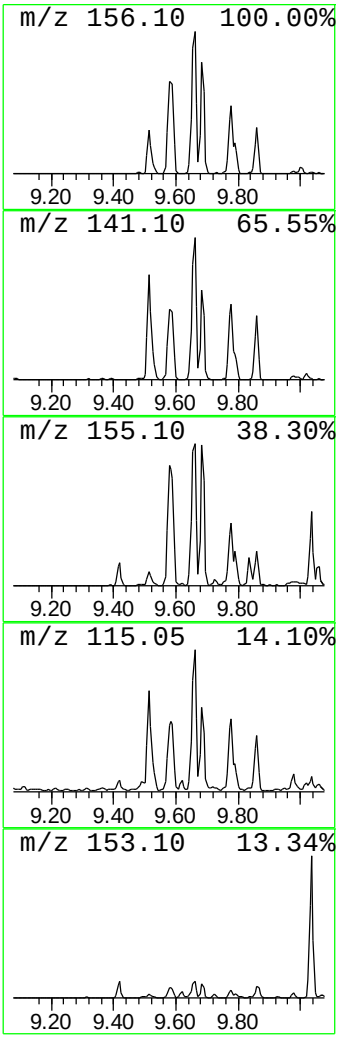
Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.58	25.76 ng	926228	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
Data File : BF106664.D
Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

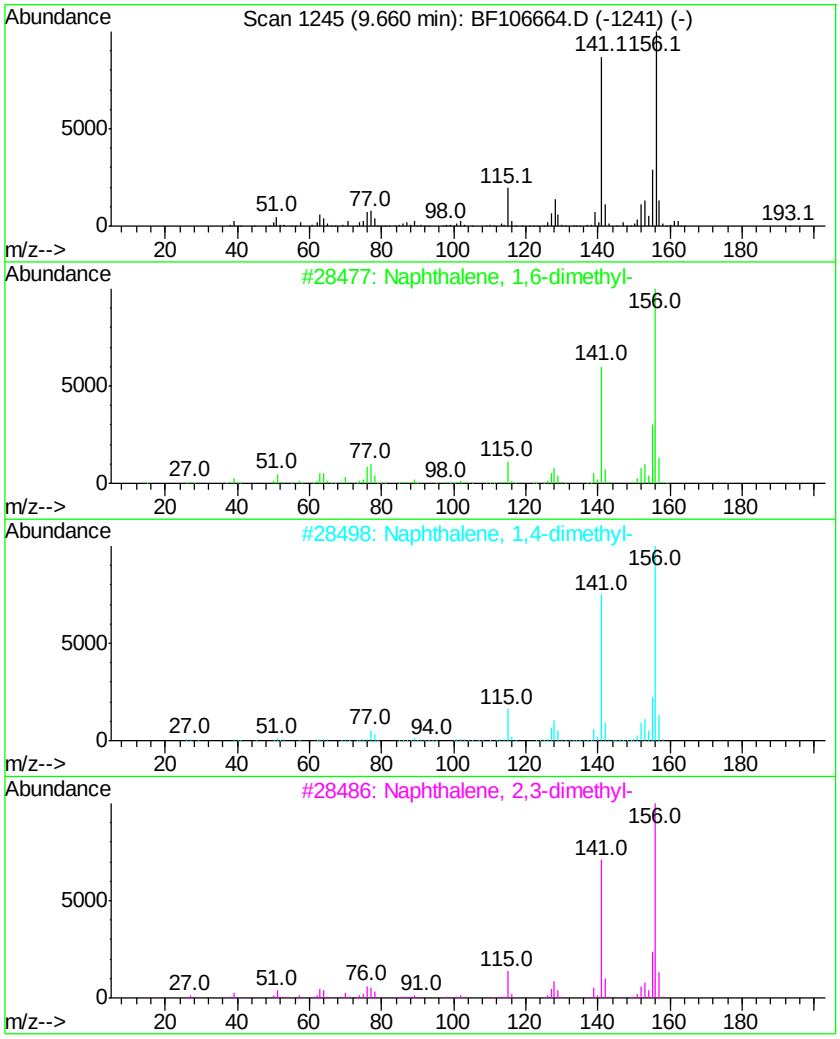
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

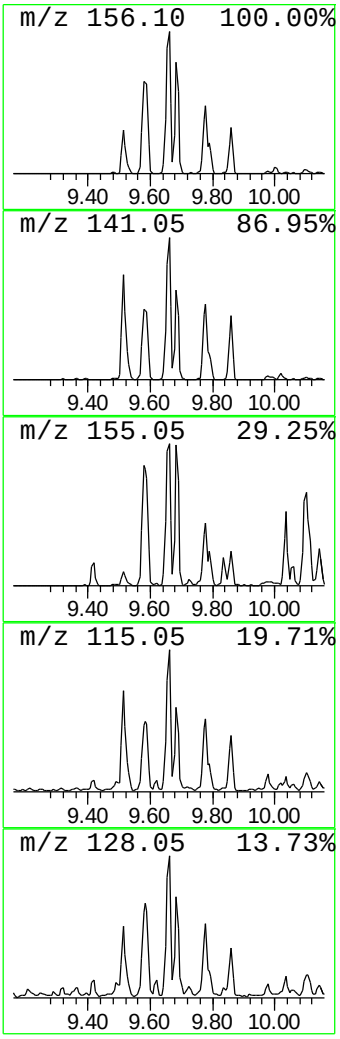
****

Peak Number 5 Naphthalene, 1,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.66	28.13 ng	1011110	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





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Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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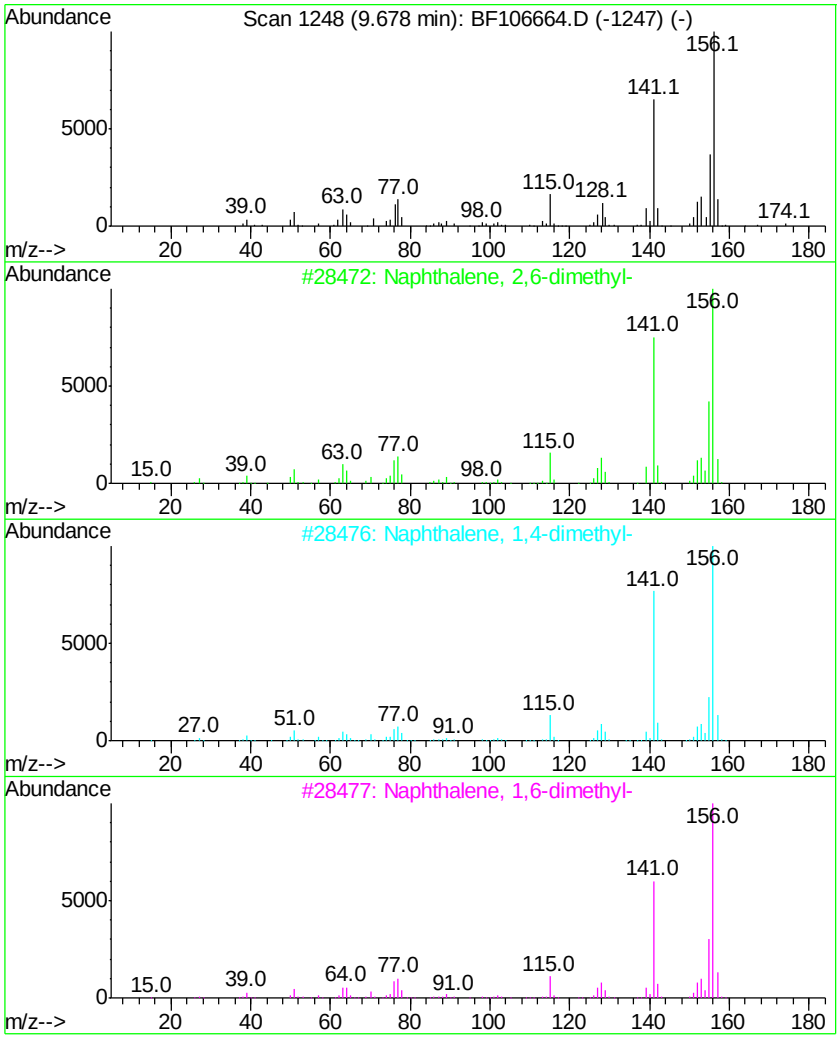
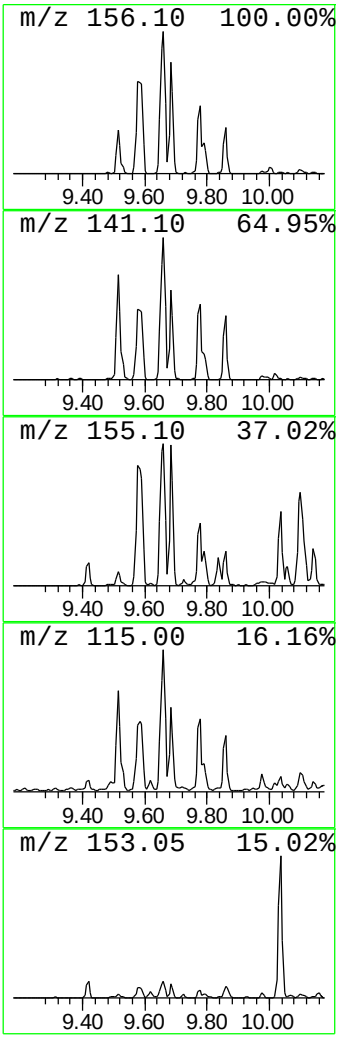
Peak Number 6 Naphthalene, 1,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.68	17.33 ng	622918	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





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Instrument : BNA_F
ClientSampleId : AREA-3(D)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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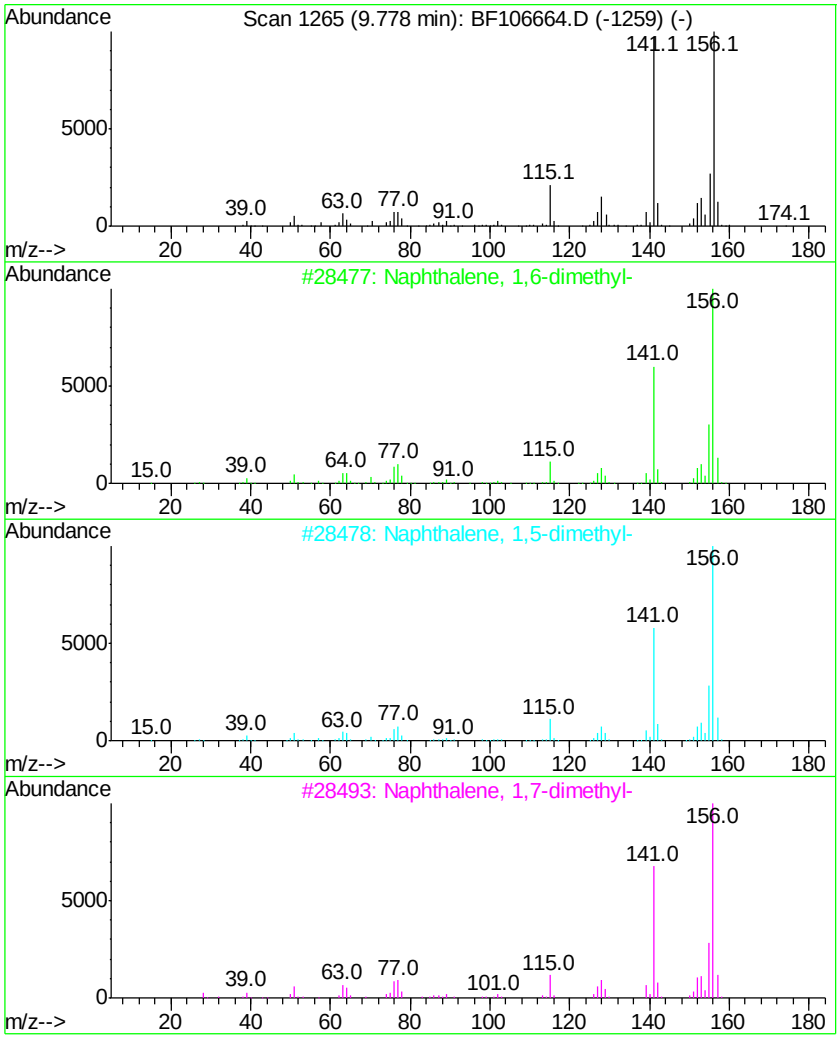
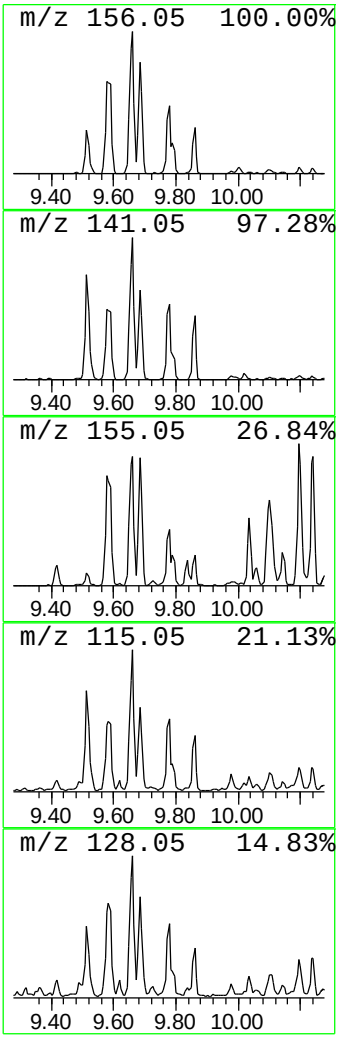
Peak Number 7 Naphthalene, 1,7-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.78	12.18 ng	437985	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





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Misc :
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ClientSampleId : AREA-3(D)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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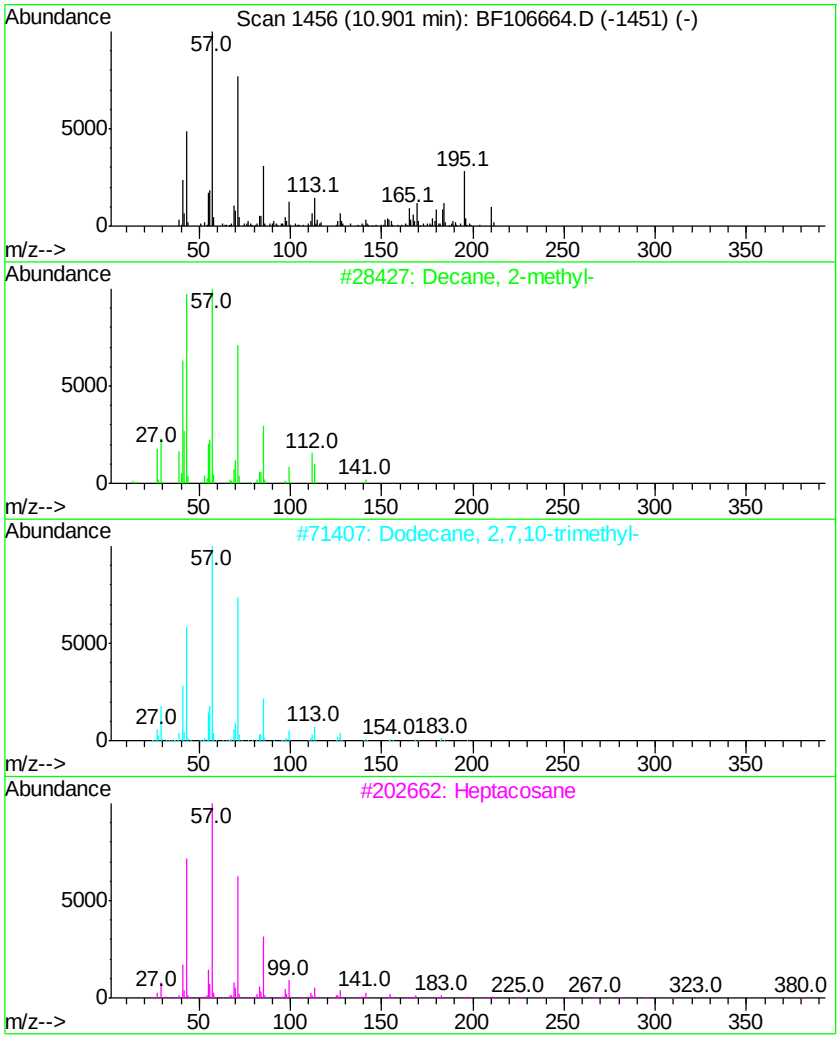
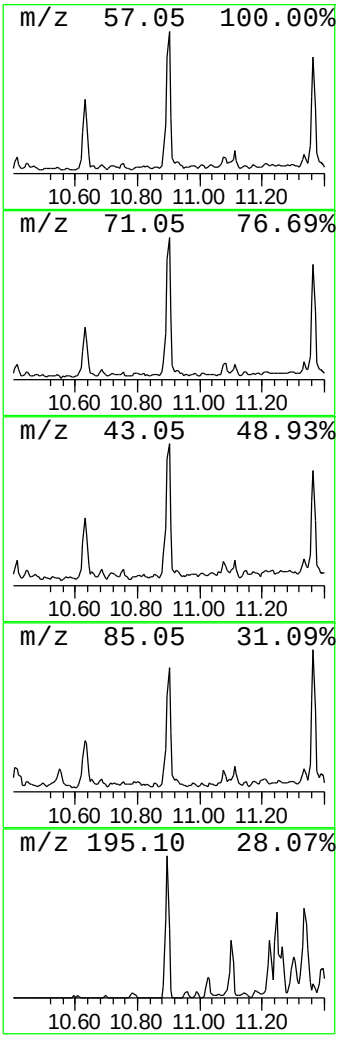
Peak Number 8 unknown10.90 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.90	12.81 ng	450410	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2-methyl-	156	C11H24	006975-98-0	42
2	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	38
3	Heptacosane	380	C27H56	000593-49-7	38
4	Octane, 2-methyl-	128	C9H20	003221-61-2	30
5	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	30





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ClientSampleId : AREA-3(D)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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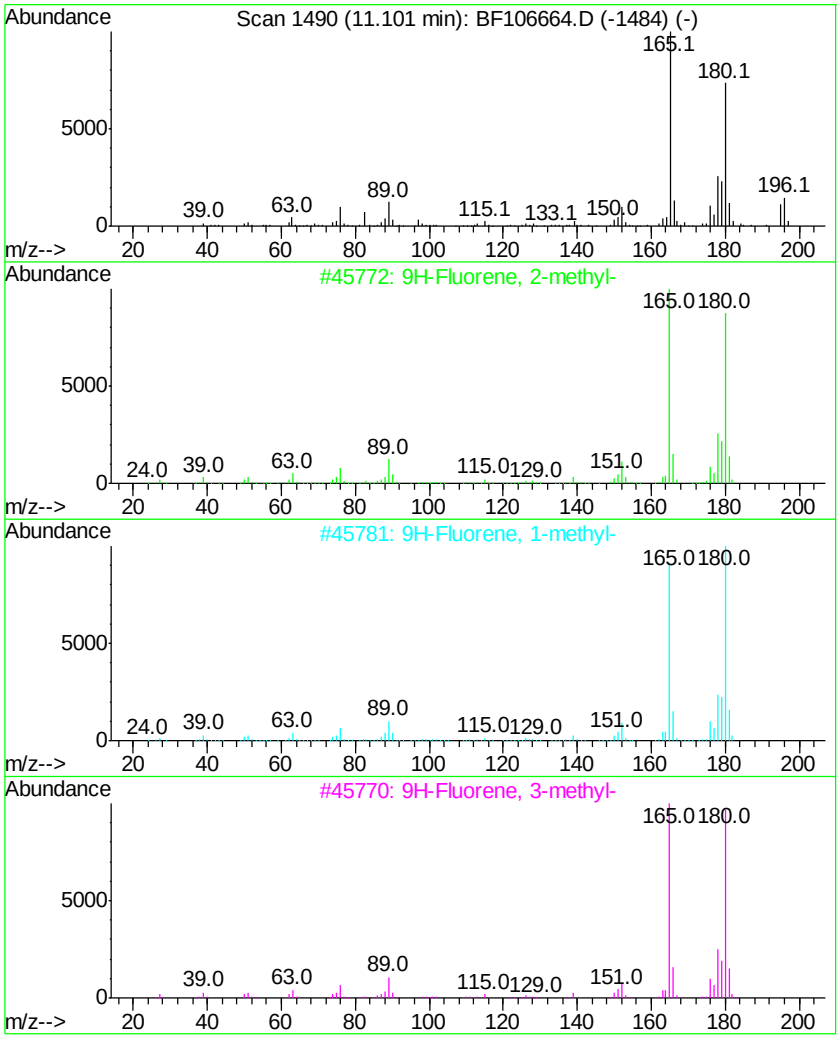
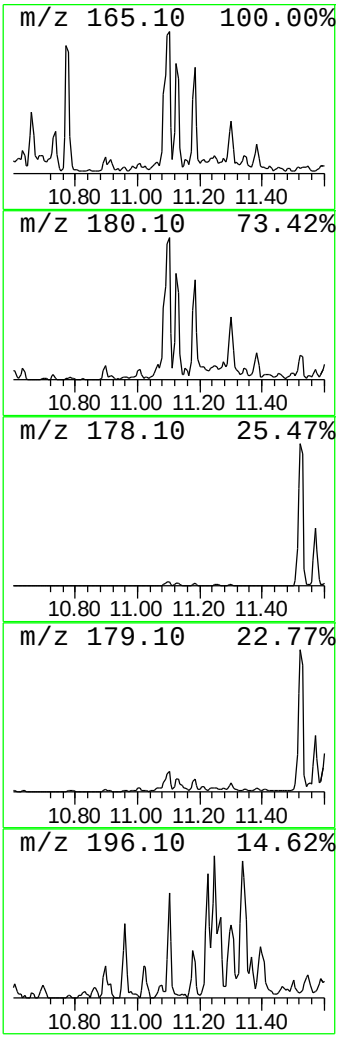
Peak Number 9 9H-Fluorene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	13.51 ng	474948	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	98
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	96
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	95
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	55





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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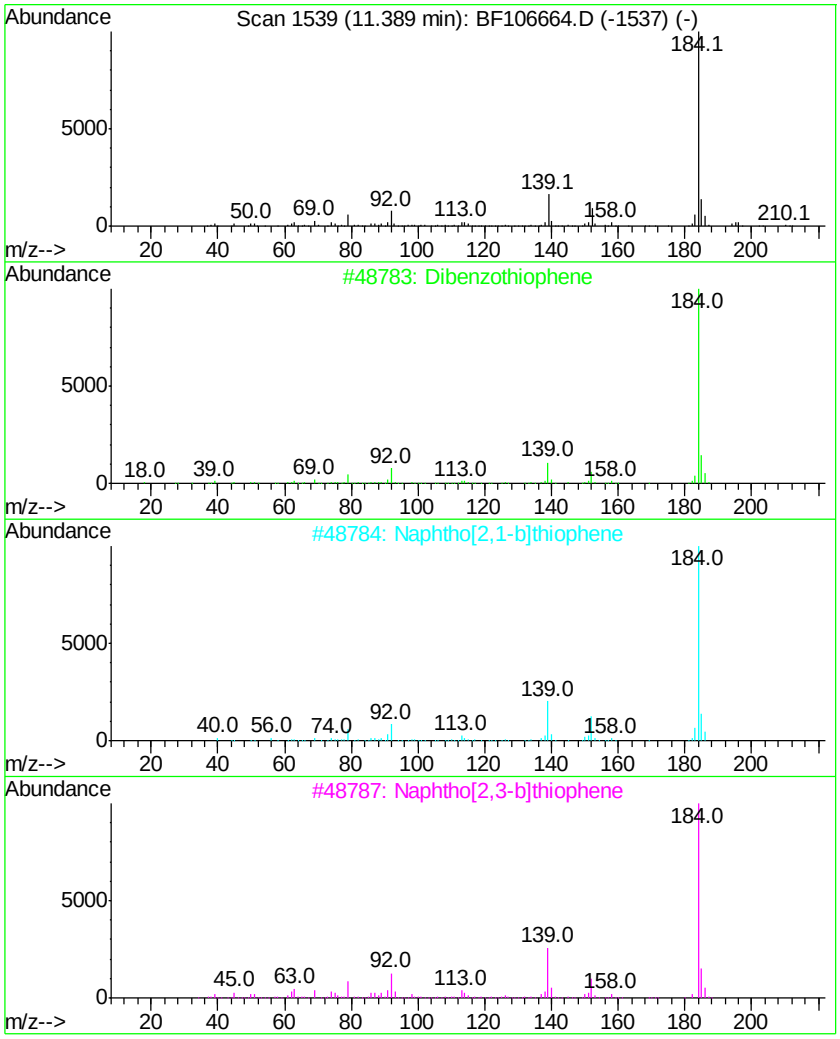
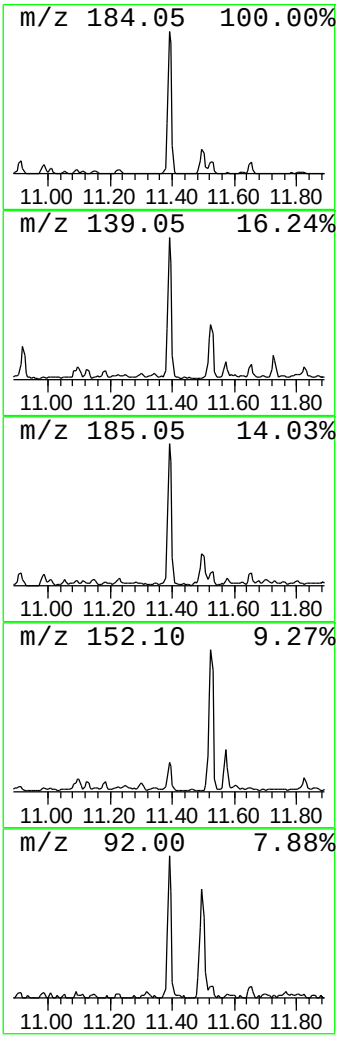
Peak Number 10 Dibenzothiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.39	13.99 ng	491941	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	80
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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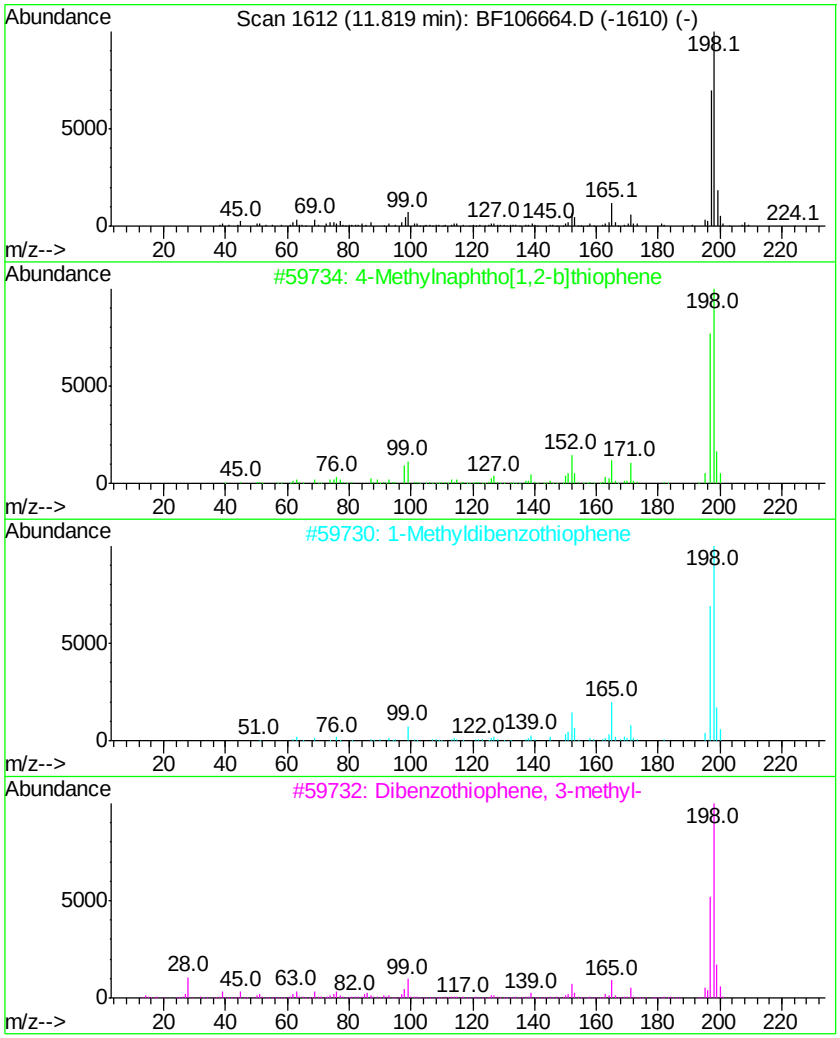
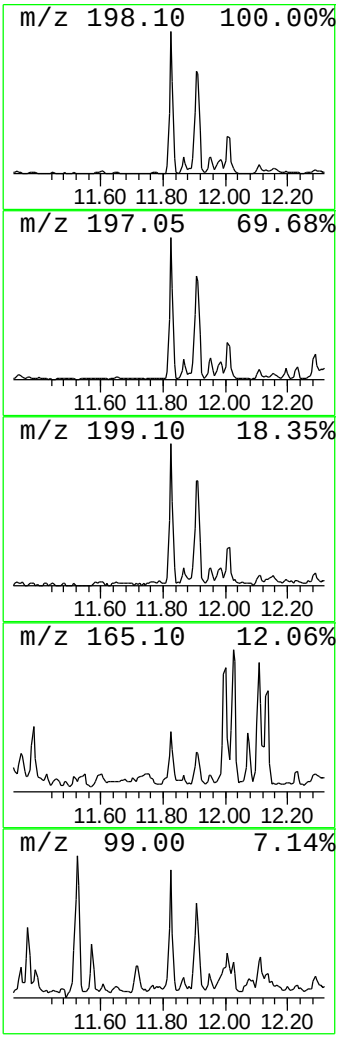
Peak Number 11 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	11.31 ng	397821	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	97
2	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	90
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	90
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	72





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Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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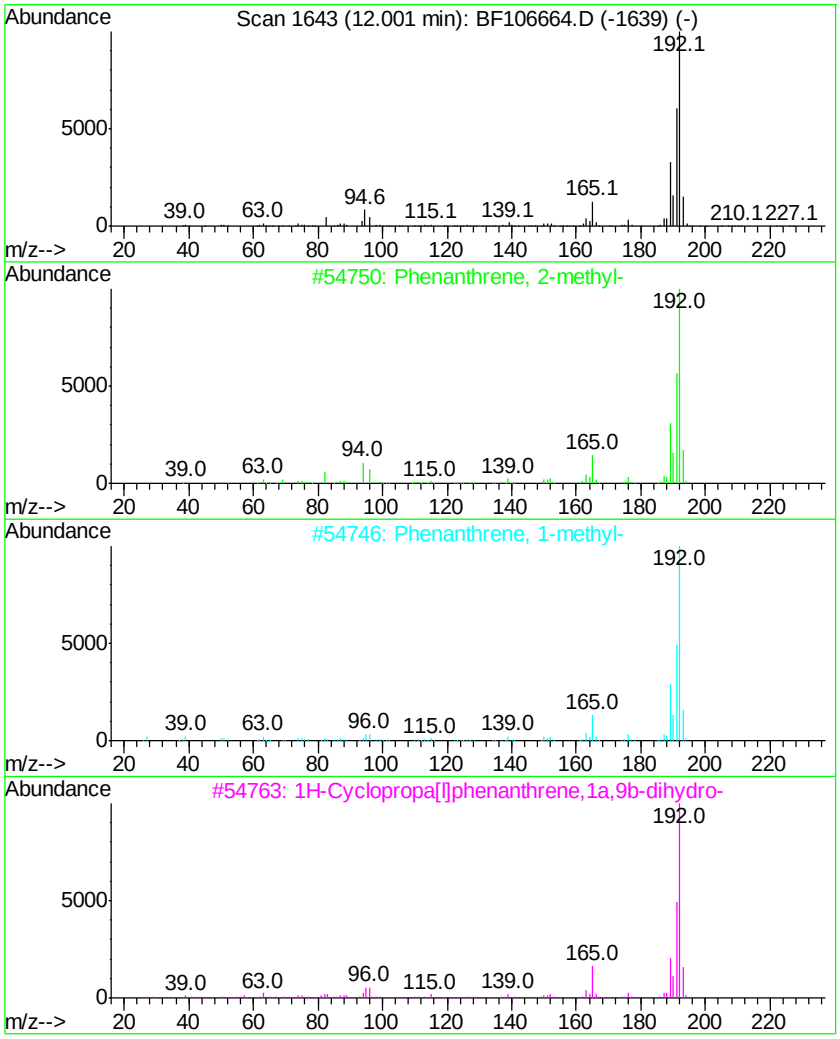
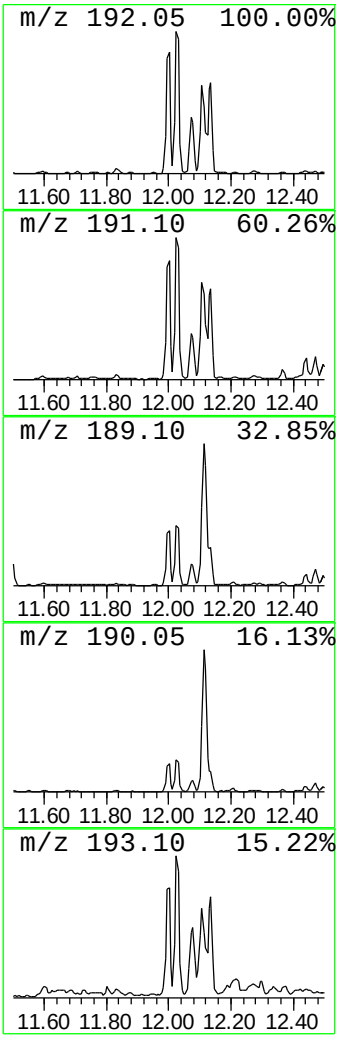
Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	24.98 ng	878338	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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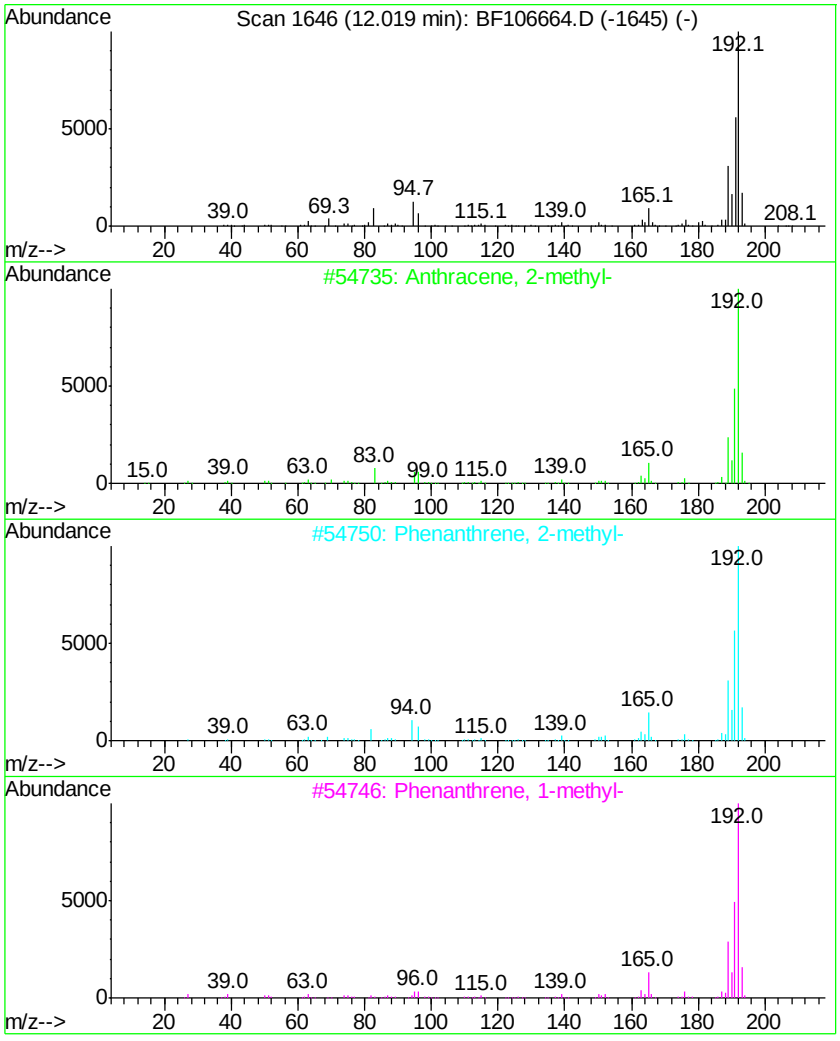
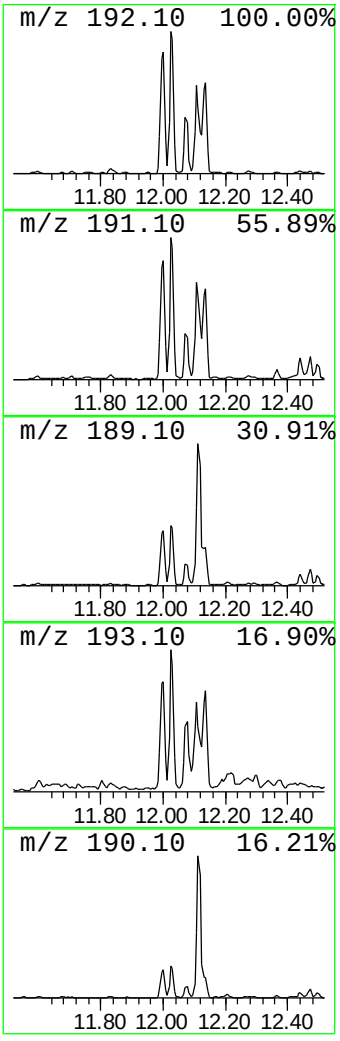
Peak Number 13 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	25.65 ng	901748	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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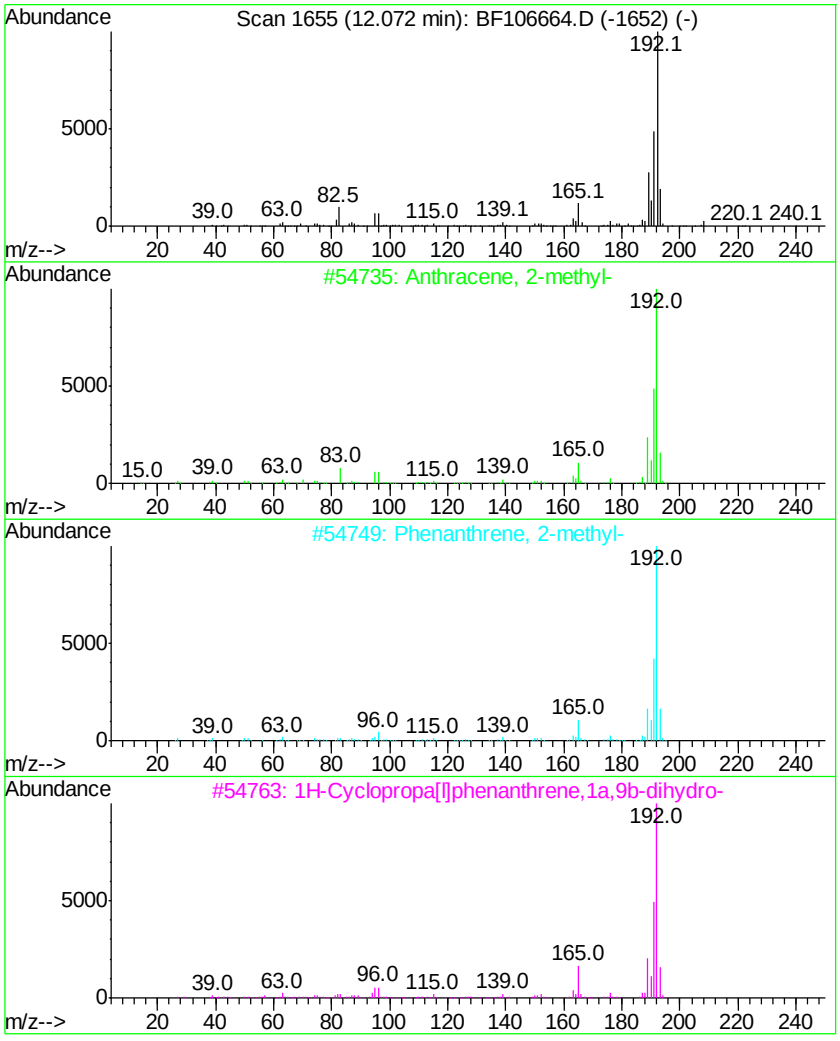
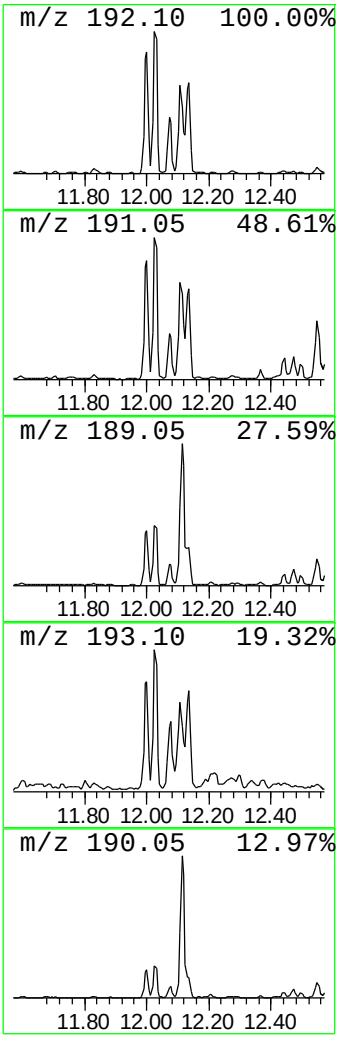
Peak Number 14 1H-Cyclopropa[l]phenanthren... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	10.82 ng	380371	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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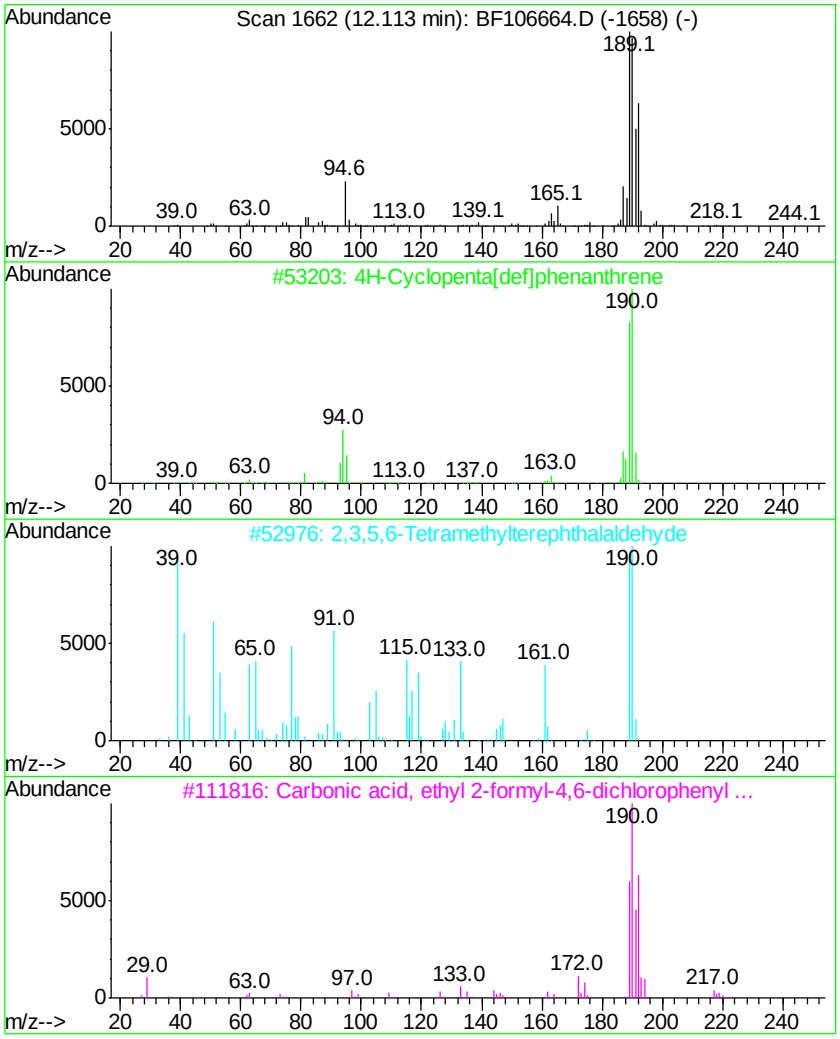
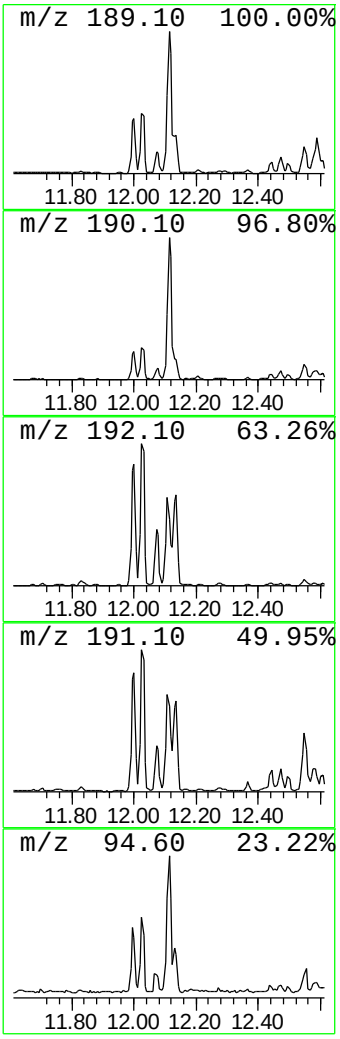
Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	35.37 ng	1243640	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	40
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	40
5	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	40





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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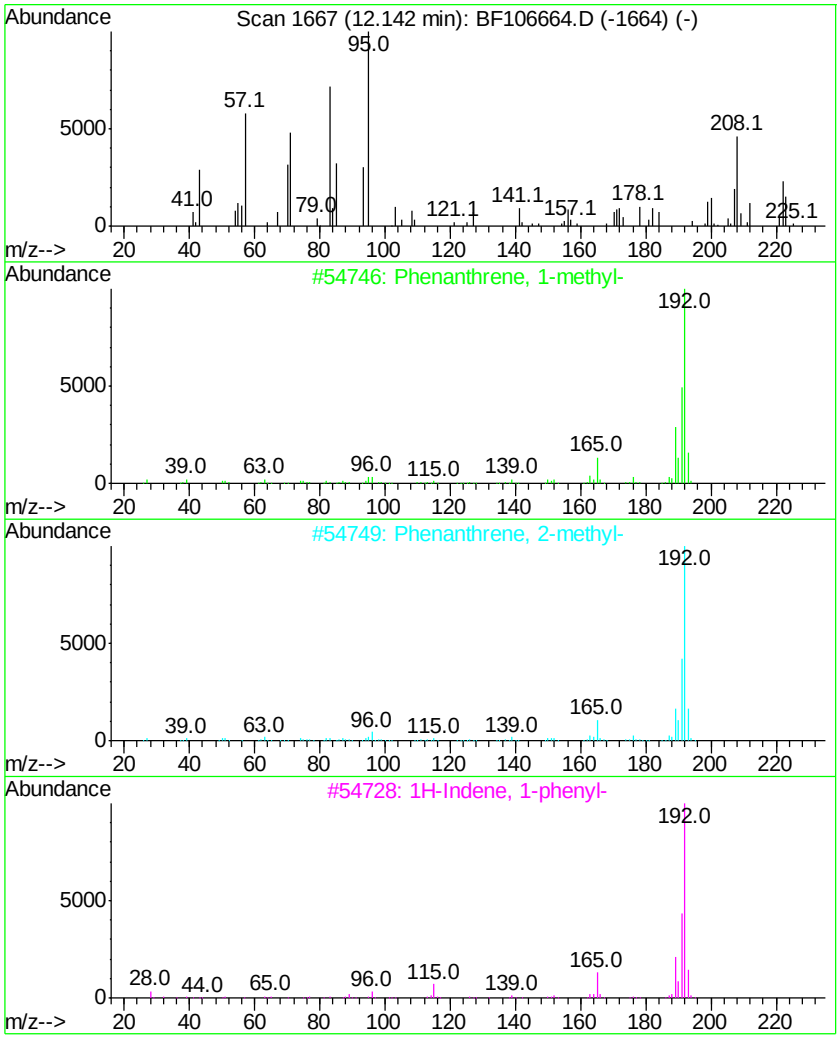
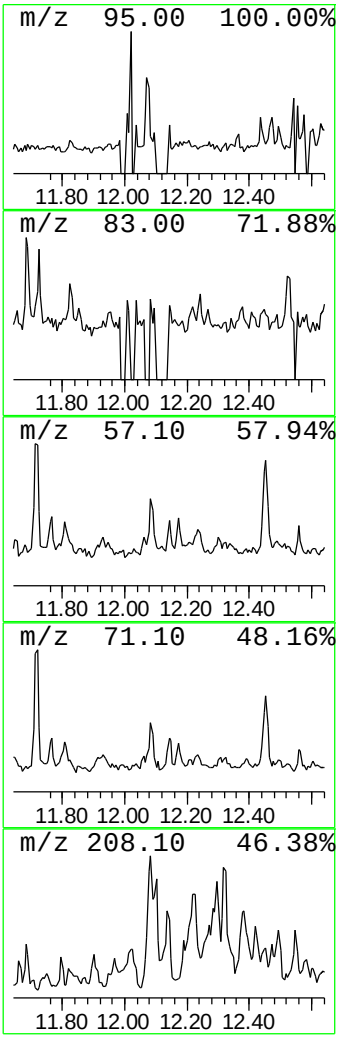
Peak Number 16 Phenanthrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	14.06 ng	494323	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
3	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	90
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





Library Search Compound Report

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Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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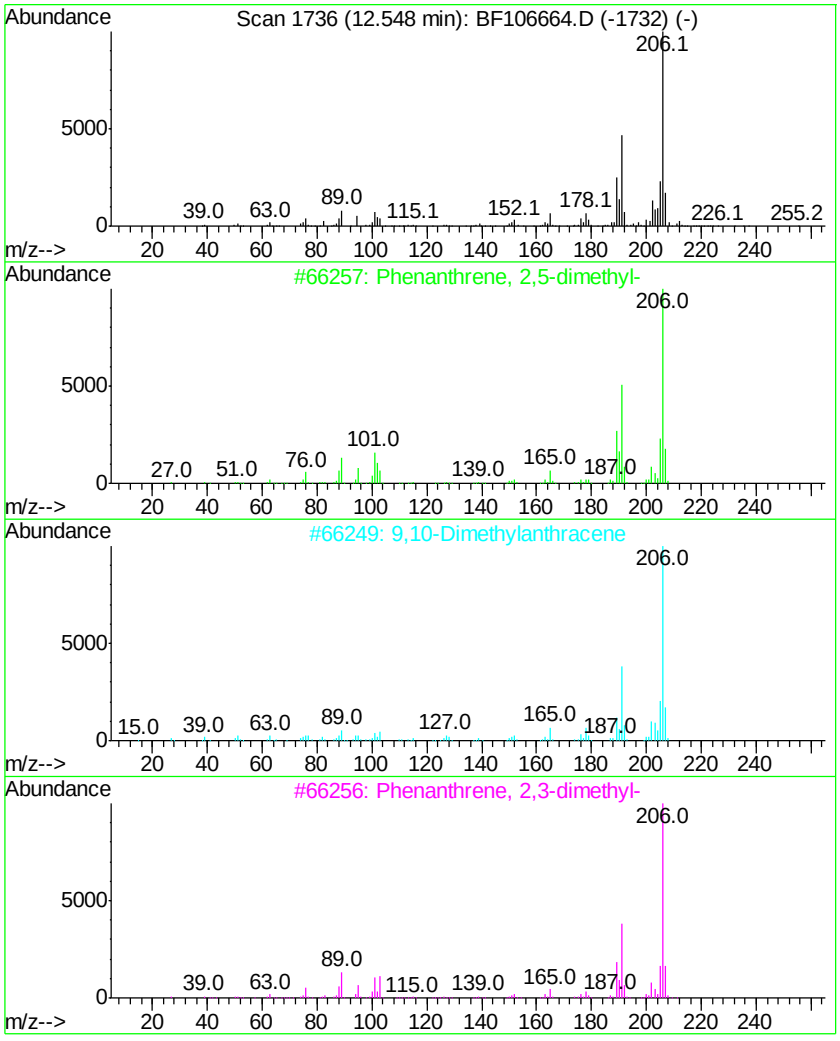
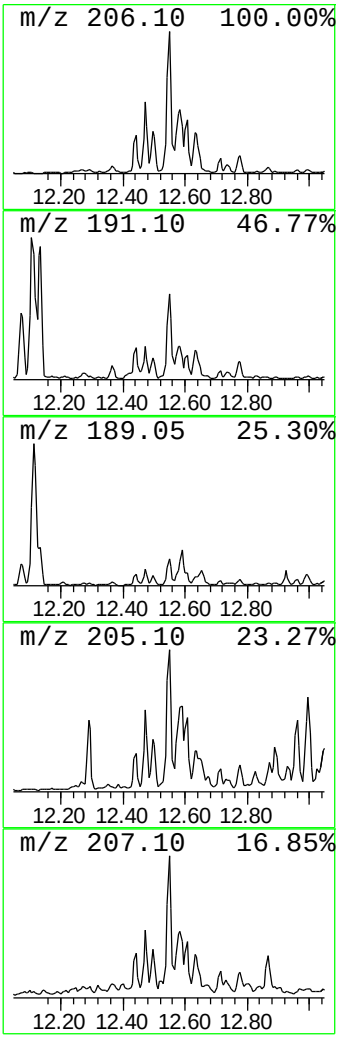
Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	18.07 ng	635513	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
Data File : BF106664.D
Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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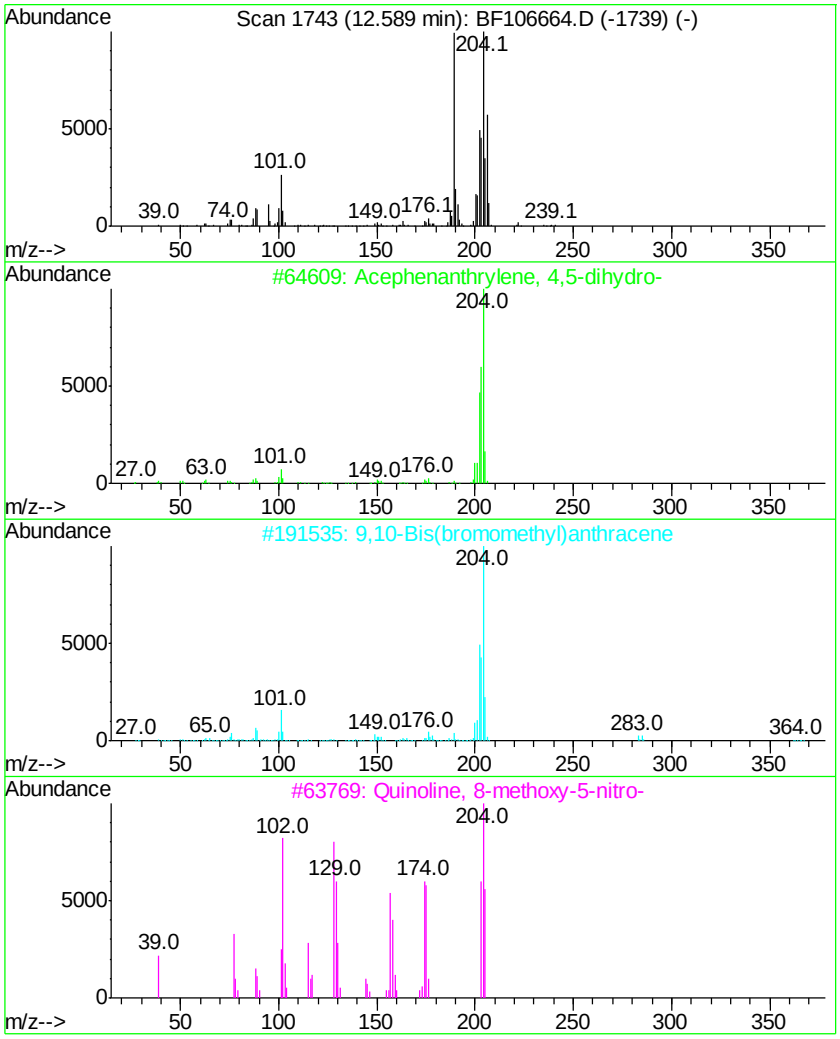
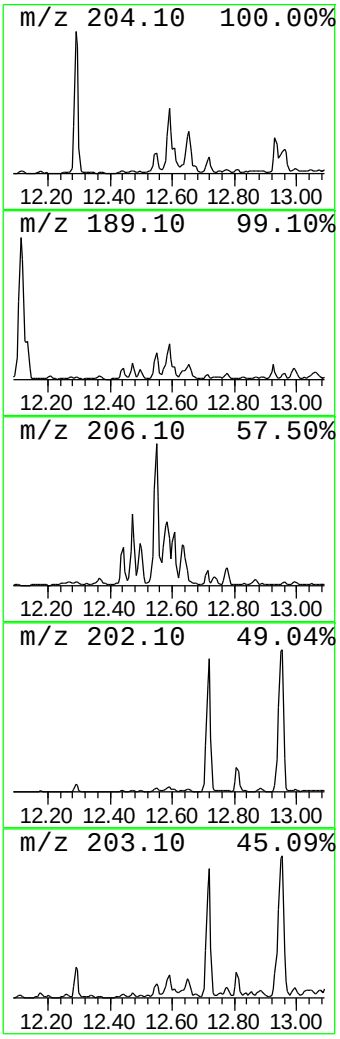
Peak Number 18 unknown12.59 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.59	13.29 ng	467300	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	46
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
3	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	38
4	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	27
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	25





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Data File : BF106664.D
Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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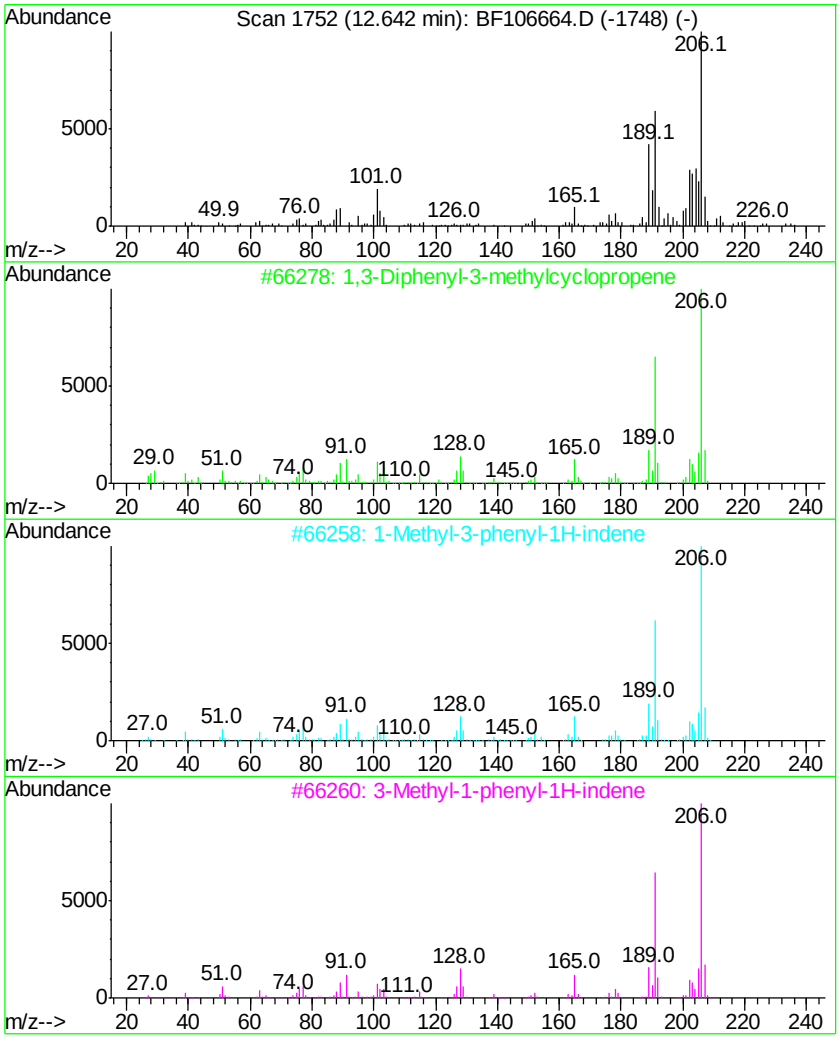
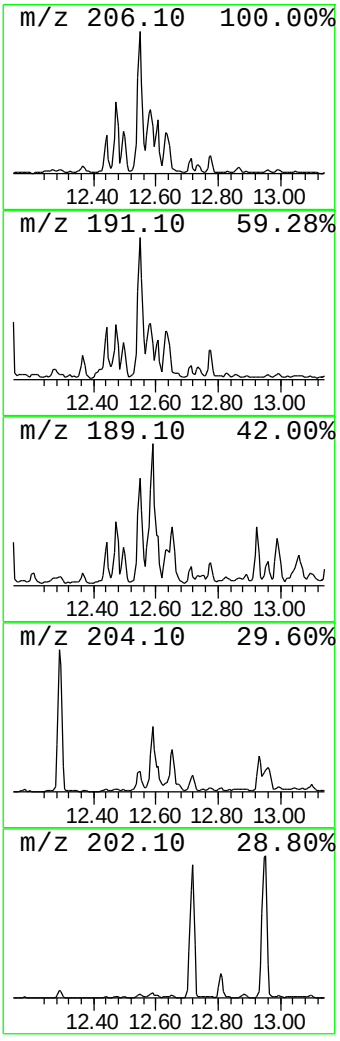
Peak Number 19 1,3-Diphenyl-3-methylcyclop... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	15.29 ng	537490	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	96
2	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	94
3	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	94
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
Data File : BF106664.D
Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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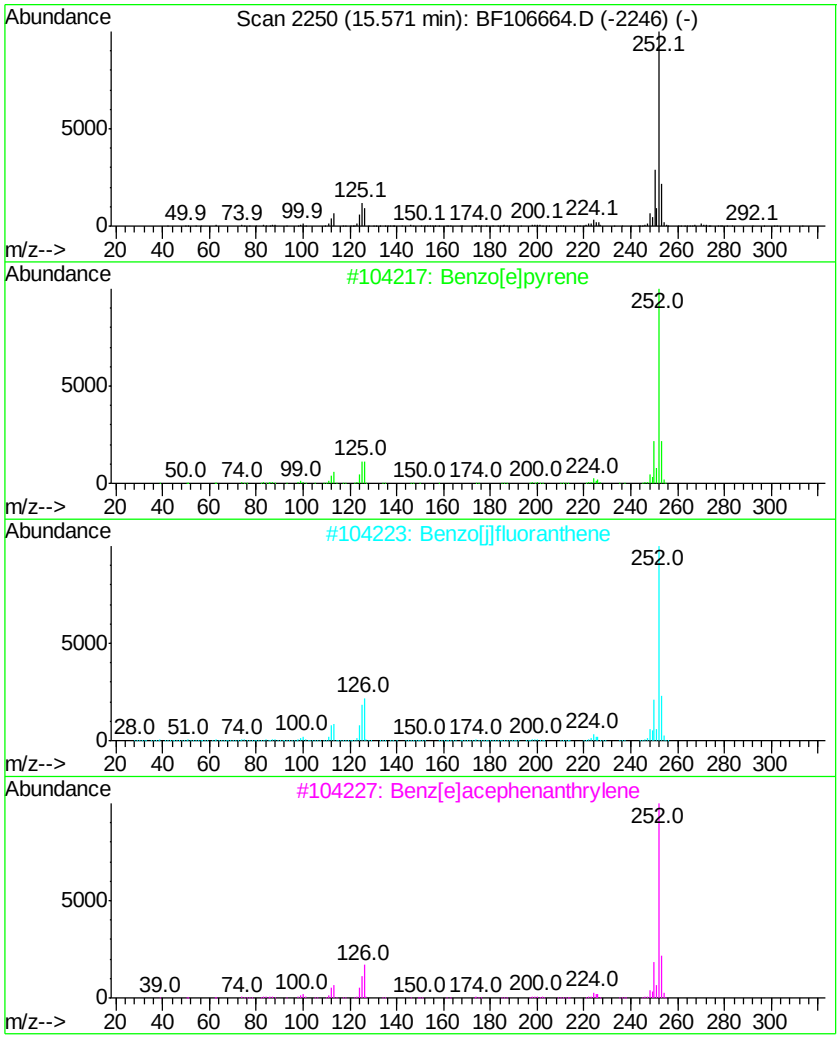
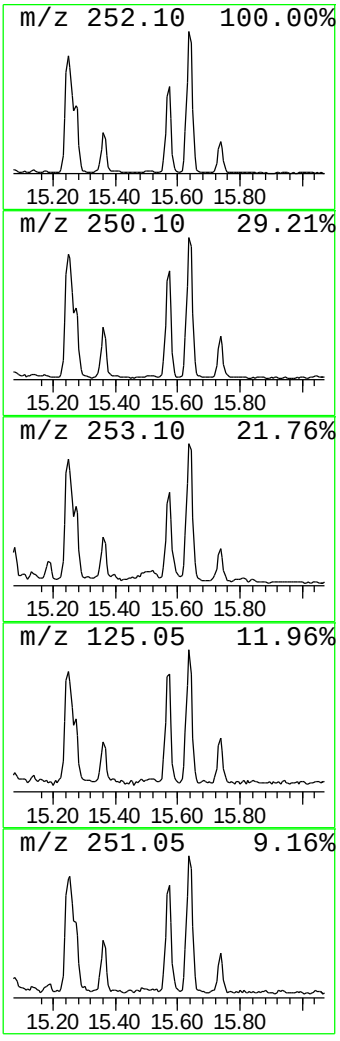
Peak Number 20 Benzo[e]pyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.57	15.82 ng	395389	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF062118\
Data File : BF106664.D
Acq On : 21 Jun 2018 16:20
Operator : JU/SJ
Sample : J3524-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AREA-3(D)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Indane	7.14	12.1	ng	331766	1	6.96	549776	20.0
Naphthalene, 1-me...	9.06	37.1	ng	1583210	2	8.24	853912	20.0
Naphthalene, 1-et...	9.51	12.1	ng	435580	3	10.00	719004	20.0
Naphthalene, 2,6-...	9.58	25.8	ng	926228	3	10.00	719004	20.0
Naphthalene, 1,6-...	9.66	28.1	ng	1011110	3	10.00	719004	20.0
Naphthalene, 1,4-...	9.68	17.3	ng	622918	3	10.00	719004	20.0
Naphthalene, 1,7-...	9.78	12.2	ng	437985	3	10.00	719004	20.0
unknown10.90	10.90	12.8	ng	450410	4	11.50	703202	20.0
9H-Fluorene, 2-me...	11.10	13.5	ng	474948	4	11.50	703202	20.0
Dibenzothiophene	11.39	14.0	ng	491941	4	11.50	703202	20.0
4-Methylnaphtho[1...	11.82	11.3	ng	397821	4	11.50	703202	20.0
Phenanthrene, 2-m...	12.00	25.0	ng	878338	4	11.50	703202	20.0
Anthracene, 2-met...	12.02	25.6	ng	901748	4	11.50	703202	20.0
1H-Cyclopropa[l]p...	12.07	10.8	ng	380371	4	11.50	703202	20.0
4H-Cyclopenta[def...	12.11	35.4	ng	1243640	4	11.50	703202	20.0
Phenanthrene, 1-m...	12.14	14.1	ng	494323	4	11.50	703202	20.0
Phenanthrene, 2,5...	12.55	18.1	ng	635513	4	11.50	703202	20.0
unknown12.59	12.59	13.3	ng	467300	4	11.50	703202	20.0
1,3-Diphenyl-3-me...	12.64	15.3	ng	537490	4	11.50	703202	20.0
Benzo[e]pyrene	15.57	15.8	ng	395389	6	15.71	499903	20.0